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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/848,110	05/03/2001	Chad Barry Dorgan	26258.002	7642

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Intellectual Property Department
DEWITT ROSS & STEVENS S.C.
Firststar Financial Centre
8000 Excelsior Drive Suite 401
Madison, WI 53717-1914

EXAMINER

PHAM, KHANH B

ART UNIT

PAPER NUMBER

2177

DATE MAILED: 06/25/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/848,110

Applicant(s)

DORGAN ET AL.

Examiner

Khanh B. Pham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 03 May 2001.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☒ Claim(s) 17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 July 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>4</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. **Claim 17 is objected to** under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 17 recites the limitation: "wherein the quality control indicator forms are assembled from a library of stock quality control indicator", which is already included in its parent claim 11.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

3. **Claims 1-7, 9-15 and 17 are rejected under 35 U.S.C. 102(a)** as being anticipated by Hyun et al. ("WorkPlan: Constraint-based Database for Work Package Scheduling", May 1999), hereinafter referred to as "Hyun".

As per claim 1, Hyun teaches a method of tracking building construction timing and quality comprising:

- (a) "determining tasks requiring completion during a building construction project" at page 155, Fig. 4;

- (b) "constructing at least one tracking form for the tasks, wherein each tracking form includes: at least one quality control indicator form wherein quality standards for one of the tasks are listed", "and at least one completion indicator allowing recordation of the completion status of one of the tasks, each completion indicator corresponding to one quality control indicator form" at page 157, Fig 7;
- (c) "while completing each task, completing the tracking form by verifying whether the quality standards listed on the task's quality control indicator form are met, and recording the completion status of the task using the task's completion indicator" at page 157, Col. 1, 2nd paragraph;
- (d) "at least periodically: compiling the completion status for the tasks, thereby obtaining a measure of the degree of completion of the building construction project; and reviewing at least some of the tasks' quality control indicator forms versus the building construction project, thereby obtaining a measure of the degree of adherence to the quality standards listed thereon" at page 157, Col. 2 and Figs. 9-10.

As per claim 2, Hyun teaches the method of claim 1 wherein "the step of verifying whether the quality standards listed on the task's quality control indicator form are met includes:

- (a) "recording adherence to the task's listed quality control standards as a binary value on the task's quality control indicator form, with the value reflecting adherence or non-adherence" at Fig 7;

- (b) "recording reasons for non-adherence to the task's listed quality control standards on the task's quality control indicator form" at Figs. 7 and 9.

As per claim 3, Hyun teaches the method of claim 2 wherein "the step of reviewing at least some of the tasks' quality control indicator forms versus the building construction project includes: sampling some of the quality control indicator forms; and statistically analyzing the sampled quality control indicator forms for adherence and reasons for non-adherence to listed quality control standards" at page 157, Col. 2 and Figs 10.

As per claim 4, Hyun teaches the method of claim 1 wherein "the completion indicators include: binary completion indicators wherein the completion status of the corresponding task is recorded as incomplete or complete"; and continuous completion indicators wherein the completion status of the corresponding task is recorded as a value ranging between incomplete and complete" at Fig. 7.

As per claim 5, Hyun teaches the method of claim 1 wherein "at least some tasks have corresponding completion indicators which include machine-readable indicia, and wherein the recordation of the completion status of each of these tasks is performed by mechanically reading the machine-readable indicia of its completion indicator once the task is completed" at Fig. 8.

As per claim 6, Hyun teaches the method of claim 5 wherein "the machine-readable indicia encode information designating the completion of their corresponding tasks" at Fig. 8.

As per claim 7, Hyun teaches the method of claim 5 wherein “the completion indicators which include machines readable indicia are provided on the quality control indicator forms to which these completion indicators correspond” at Fig. 8.

As per claim 9, Hyun teaches the method of claim 5 wherein “the completion indicators which include machine readable indicia are provided on cards separate from the quality control indicator forms to which these completion indicators correspond, and wherein each card is associated with its corresponding quality control indicator form in a container” at Fig 8.

As per claim 10, Hyun teaches the method of claim 1 wherein “the completion indicators are provided on their corresponding quality control indicator forms” at Fig. 7.

As per claims 11, 17, Hyun teaches the method of claim 1 wherein “the quality control indicator forms are assembled from a library of stock quality control indicator forms” at page 157, Col. 1.

As per claim 12, Hyun teaches the method of claim 1 wherein “the building construction project includes design, construction, and start-up phases, and wherein tracking forms are completed during each phase” at page 159, Col. 2, 5th and 6th paragraphs.

As per claim 13, Hyun teaches the method of claim 1 wherein “the building construction project includes a construction phase wherein building components are installed, and wherein at least some of the building components have tracking forms attached prior to their installation, with these tracking forms including quality control

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indicator forms and completion indicators relating to tasks performed during installation” at Fig. 7.

As per claim 14, Hyun teaches a method of tracking building construction timing and quality comprising:

- (a) “determining tasks requiring completion during a building construction project” at Fig. 4;
- (b) “constructing at least one tracking form for the tasks, wherein each tracking form includes for each task: at least one quality control indicator form listing quality standards for the completion of the task” and at least one completion indicator for the task, wherein the completion indicator bears machine-readable indicia encoding the completion status of the task” at Fig. 8;
- (c) “while completing each task, recording on the task’s quality control indicator form whether the quality standards listed thereon are met; if the quality standards listed thereon are not met, recording on the task’s quality control indicator form the reasons why; recording the completion status of the task using the task’s completion indicator” at Figs. 7-8;
- (d) “at least periodically: compiling the tasks’ completion status, thereby obtaining a measure of the degree of completion of the building construction project; and reviewing at least some of the tasks’ quality control indicator forms versus the corresponding completed tasks within the building construction project, thereby obtaining a measure of the degree of adherence to the quality standards listed on the quality control indicator forms” at page 157, Col. 2 and Figs. 10.

As per claim 15, Hyun teaches the method of claim 11 wherein "one or more completion indicators are provided on their corresponding quality control indicator forms" at Fig. 7.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. **Claims 8, 16 are rejected under 35 U.S.C. 103(a)** as being unpatentable over Hyun as applied to claims 1-7, 9-15 and 17 above and in view of Finch et al. ("Auto-ID Application in Construction, March 1996), hereinafter referred to as "Finch".

As per claim 8, Hyun teaches the method of claim 5 as discussed above. Hyun does not teach: "the completion indicators which include machine readable indicia are adhesively attachable to the quality control indicator forms to which these completion

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indicators correspond". However, Finch teaches a method for tracking and management construction project by attaching barcodes to construction documents such as drawing, orders, and requisitions (page 124, Col. 1, 3rd paragraph). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hyun's quality control form to include "machine readable indicia adhesively attachable to the form to which these completion indicators correspond" as claimed, so that the data on the form can be inputted quickly to computer using a barcode scanner, therefore reduce the data input time and eliminate possible human errors.

As per claim 16, Hyun teaches the method of claim 11 as discussed above. Hyun does not teach: "one or more completion indicators are provided as adhesive stickers whereupon their machine-readable indicia are provided, and the completion indicators provided as adhesive stickers are adhered to their corresponding quality control indicator forms prior to recording the completion status of their corresponding tasks. However, Finch teaches a method for tracking and management construction project by attaching barcodes to construction documents such as drawing, orders, and requisitions (page 124, Col. 1, 3rd paragraph). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hyun's quality control form to include "one or more completion indicators are provided as adhesive stickers whereupon their machine-readable indicia are provided..." as claimed, so that the data on the form can be quickly inputted to a computer using a barcode scanner, therefore reduce the data input time and eliminate possible human errors.

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Conclusion

7. The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

If a reference indicated as being mailed on PTO-FORM 892 has not been enclosed in this action, please contact Lisa Craney whose telephone number is **(703) 305-9601** for faster service.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Pham whose telephone number is (703) 308-7299. The examiner can normally be reached on Monday through Friday 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Breene can be reached on (703) 305-9790. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 746-7240.

Khanh B. Pham
Examiner
Art Unit 2177

KBP
June 18, 2003


JEAN R. HOMERE
PRIMARY EXAMINER